



SEQUENCE LISTING

4

B1

<110> Magdalena, J  
Supply, P  
Locht, C

<120> FRAGMENTS OF NUCLEIC ACIDS SPECIFIC TO MYCOBACTERIA  
WHICH ARE MEMBERS OF THE M. TUBERCULOSIS COMPLEX AND  
THEIR APPLICATIONS FOR THE DETECTION AND THE  
DIFFERENTIAL DIAGNOSIS OF MEMBERS OF THE M. TUBERC

<130> 408.014-CON

<140> 10/086,206

<141> 2002-02-28

<150> 09/242,588

<151> 1999-05-20

<150> PCT/FR97/01483

<151> 1997-08-12

<150> FR 96/10277

<151> 1996-08-19

<160> 21

<170> PatentIn Ver. 2.1

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<211> 77

<212> DNA

<213> Mycobacterium tuberculosis

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<213> Mycobacterium tuberculosis

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<212> DNA

<213> Mycobacterium bovis

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<213> Mycobacterium tuberculosis

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atgaggtggg ggcaccaccc gcttgccggg gagagtggcg ctgatgacct gcgccgacga 180  
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<210> 14  
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<212> PRT  
<213> Mycobacterium bovis BCG

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NO:12.

<400> 14  
Met Thr Cys Ala Asp Asp Asp Ala Glu Arg Ser Asp Glu Val Gly Ala  
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Pro Pro Ala Cys Gly Gly Glu Trp Arg  
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<210> 15  
<211> 25  
<212> PRT  
<213> Mycobacterium bovis BCG

<220>  
<223> Translation of ORF nucleotides 1602-1679 of SEQ ID  
NO:12.

<400> 15  
Met Thr Cys Ala Asp Asp Asp Ala Glu Arg Ser Asp Glu Val Gly Ala  
1 5 10 15  
Pro Pro Ala Cys Gly Gly Glu Trp Arg  
20 25

<210> 16  
<211> 25  
<212> PRT

<213> Mycobacterium tuberculosis

<220>

<223> Translation of ORF nucleotides 10-87 of SEQ ID  
NO:13.

<400> 16

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Pro	Pro	Ala	Cys	Gly	Gly	Glu	Trp	Arg
			20				25	

<210> 17

<211> 25

<212> PRT

<213> Mycobacterium tuberculosis

<220>

<223> Translation of ORF nucleotides 87-164 of SEQ ID  
NO:13.

<400> 17

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Pro	Pro	Ala	Cys	Gly	Gly	Glu	Trp	Arg
			20				25	

<210> 18

<211> 17

<212> PRT

<213> Mycobacterium tuberculosis

<220>

<223> Translation of ORF nucleotides 164-217 of SEQ ID  
NO:13.

<400> 18

Met	Thr	Cys	Ala	Asp	Asp	Asp	Ala	Glu	Arg	Ser	Asp	Glu	Glu	Glu	Trp
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Arg

<210> 19  
<211> 39  
<212> PRT  
<213> Mycobacterium bovis

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<223> Translation of nucleotides 3-119 of SEQ ID NO:12,  
partial PgmY amino acid sequence.

<400> 19  
Ile Pro Leu Arg Tyr Asp Leu Asp Ser Ala Met Arg Pro Leu Val Arg  
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Gly Gly Thr Tyr Leu Asp Pro Glu Ala Ala Ala Gly Ala Ala Ala  
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Val Ala Gly Gln Gly Arg Gly  
35

<210> 20  
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<212> PRT  
<213> Mycobacterium bovis

<220>  
<223> Translation of nucleotides 296-1528 of SEQ ID  
NO:12, SenX3 amino acid sequence.

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Ala Leu Ala Val Gly Gly Ala Val Gly Met Arg Leu Thr Ser Arg Val  
20 25 30  
Val Glu Gln Arg Gln Arg Val Ala Thr Glu Trp Ser Gly Ile Thr Val  
35 40 45  
Ser Gln Met Leu Gln Cys Ile Val Thr Leu Met Pro Leu Gly Ala Ala  
50 55 60  
Val Val Asp Thr His Arg Asp Val Val Tyr Leu Asn Glu Arg Ala Lys  
65 70 75 80  
Glu Leu Gly Leu Val Arg Asp Arg Gln Leu Asp Asp Gln Ala Trp Arg  
85 90 95

Ala Ala Arg Gln Ala Leu Gly Gly Glu Asp Val Glu Ser Asp Leu Ser  
 100 105 110  
 Pro Arg Lys Arg Ser Ala Thr Gly Arg Ser Gly Leu Ser Val His Gly  
 115 120 125  
 His Ala Arg Leu Leu Ser Glu Glu Asp Arg Arg Phe Ala Val Val Phe  
 130 135 140  
 Val His Asp Gln Ser Asp Tyr Ala Arg Met Glu Ala Ala Arg Arg Asp  
 145 150 155 160  
 Phe Val Ala Asn Val Ser His Glu Leu Lys Thr Pro Val Gly Ala Met  
 165 170 175  
 Ala Leu Leu Ala Glu Ala Leu Leu Ala Ser Ala Asp Asp Ser Glu Thr  
 180 185 190  
 Val Arg Arg Phe Ala Glu Lys Val Leu Ile Glu Ala Asn Arg Leu Gly  
 195 200 205  
 Asp Met Val Ala Glu Leu Ile Glu Leu Ser Arg Leu Gln Gly Ala Glu  
 210 215 220  
 Arg Leu Pro Asn Met Thr Asp Val Asp Val Asp Thr Ile Val Ser Glu  
 225 230 235 240  
 Ala Ile Ser Arg His Lys Val Ala Ala Asp Asn Ala Asp Ile Glu Val  
 245 250 255  
 Arg Thr Asp Ala Pro Ser Asn Leu Arg Val Leu Gly Asp Gln Thr Leu  
 260 265 270  
 Leu Val Thr Ala Leu Ala Asn Leu Val Ser Asn Ala Ile Ala Tyr Ser  
 275 280 285  
 Pro Arg Gly Ser Leu Val Ser Ile Ser Arg Arg Arg Arg Gly Ala Asn  
 290 295 300  
 Ile Glu Ile Ala Val Thr Asp Arg Gly Ile Gly Ile Ala Pro Glu Asp  
 305 310 315 320  
 Gln Glu Arg Val Phe Glu Arg Phe Phe Arg Gly Asp Lys Ala Arg Ser  
 325 330 335  
 Arg Ala Thr Gly Gly Ser Gly Leu Gly Leu Ala Ile Val Lys His Val  
 340 345 350



Ala Ala Asn His Asp Gly Thr Ile Arg Val Trp Ser Lys Pro Gly Thr  
 355 360 365

Gly Ser Thr Phe Thr Leu Ala Leu Pro Ala Leu Ile Glu Ala Tyr His  
 370 375 380

Asp Asp Glu Arg Pro Glu Gln Ala Arg Glu Pro Glu Leu Arg Ser Asn  
 385 390 395 400

Arg Ser Gln Arg Glu Glu Glu Leu Ser Arg  
 405 410

<210> 21

<211> 227

<212> PRT

<213> Mycobacterium bovis

<220>

<223> Translation of nucleotides 1679-2362 of SEQ ID  
 NO:12, RegX3 amino acid sequence.

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Met Thr Ser Val Leu Ile Val Glu Asp Glu Glu Ser Leu Ala Asp Pro  
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Leu Thr Phe Leu Leu Arg Lys Glu Gly Phe Glu Ala Thr Val Val Thr  
 20 25 30

Asp Gly Pro Ala Ala Leu Ala Glu Phe Asp Arg Ala Gly Ala Asp Ile  
 35 40 45

Val Leu Leu Asp Leu Met Leu Pro Gly Met Ser Gly Thr Asp Val Cys  
 50 55 60

Lys Gln Leu Arg Ala Arg Ser Ser Val Pro Val Ile Met Val Thr Ala  
 65 70 75 80

Arg Asp Ser Glu Ile Asp Lys Val Val Gly Leu Glu Leu Gly Ala Asp  
 85 90 95

Asp Tyr Val Thr Lys Pro Tyr Ser Ala Arg Glu Leu Ile Ala Arg Ile  
 100 105 110

Arg Ala Val Leu Arg Arg Gly Gly Asp Asp Asp Ser Glu Met Ser Asp  
 115 120 125

Gly Val Leu Glu Ser Gly Pro Val Arg Met Asp Val Glu Arg His Val

130

135

140

Val Ser Val Asn Gly Asp Thr Ile Thr Leu Pro Leu Lys Glu Phe Asp  
145 150 155 160

Leu Leu Glu Tyr Leu Met Arg Asn Ser Gly Arg Val Leu Thr Arg Gly  
165 170 175

Gln Leu Ile Asp Arg Val Trp Gly Ala Asp Tyr Val Gly Asp Thr Lys  
180 185 190

Thr Leu Asp Val His Val Lys Arg Leu Arg Ser Lys Ile Glu Ala Asp  
195 200 205

Pro Ala Asn Pro Val His Leu Val Thr Val Arg Gly Leu Gly Tyr Lys  
210 215 220

Leu Glu Gly  
225